

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	204765	(program or application or software) with (optimiz\$5 or profil\$3 or trac\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/29 14:15
L2	402	L1 and (frequenc\$3 with multipl\$3 with loop\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/29 14:15
L3	13	L2 and (instrument\$5 with (program or application or software))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/29 14:16
L4	0	L3 and ((add\$3 or insert\$3 or plac\$3) with (jump or branch) with (instruction or statement or code))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/29 14:16
L5	8476	1 and (instrument\$5 with (program or application or software))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/29 14:16
L6	250	5 and ((add\$3 or insert\$3 or plac\$3) with (jump or branch) with (instruction or statement or code))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/29 14:16
L7	112	6 and "717"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/29 14:20
L8	74	7 and loop\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/29 14:21

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L9	42	8 and graph	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/29 15:34
L10	2	((komatsu near hideaki) and (suganuma near toshio) and (yasue near toshiaki)).in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/29 15:36
S3	60253	(program or application or software) with optimiz\$5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/29 08:27
S4	17356	S3 and loop	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/27 14:07
S5	17359	S3 and loop\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/27 14:07
S6	2679	S5 and (execut\$3 with (routine or path))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/27 14:07
S7	338	S6 and ((inner adj loop) or inner-loop)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/27 14:08
S8	227	S7 and frequenc\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/27 14:21

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S9	33	S8 and "717"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/27 14:09
S10	110	S8 and graph	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/27 14:21
S11	38	S10 and counter	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/27 16:01
S12	1427	S3 and (control with graph)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/27 16:02
S13	546	S3 and (control near2 graph)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/27 16:02
S14	272	S13 and (execut\$3 with (path or routine))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/29 08:31
S15	30	S14 and ((inner adj loop\$1) or in-loop\$1 or inner-loop\$1) and ((outer adj loop\$1) or out-loop\$1 or outer-loop\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/27 16:05
S16	18	S15 and frequenc\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/27 16:06

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S17	60367	(program or application or software) with optimiz\$5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/29 08:31
S18	3830	S17 and (frequenc\$3 with multipl\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/29 08:32
S19	122	S17 and (frequenc\$3 with multipl\$3 with loop\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/29 08:36
S20	204765	(program or application or software) with (optimiz\$5 or profil\$3 or trac\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/29 08:32
S21	9158	S20 and (frequenc\$3 with multipl\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/29 08:32
S22	402	S20 and (frequenc\$3 with multipl\$3 with loop\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/29 08:32
S23	0	S20 and (frequenc\$3 with multipl\$3 with (in-loop\$1 or inner-loop or (inner adj loop) or (in-inner adj loop)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/29 08:33
S24	13	S22 and (instrument\$5 with (program or application or software))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/29 14:14


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### 1 [Optimally profiling and tracing programs](#)

Thomas Ball, James R. Larus

July 1994 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 16, Number 3, pp. 375-402

Publisher: ACM Press

Full text available: [pdf\(2.84 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

This paper describes algorithms for inserting monitoring code to profile and trace programs. The algorithms greatly reduce the cost of measuring programs with respect to the commonly used technique of counting each basic block. Program profiling counts the number of times each basic block in a program executes. Instruction tracing records the sequence of basic blocks traversed in a program execution. The algorithms optimize the placement of counting/tracing code with respect to the ...

**Keywords:** control-flow graph, instruction tracing, instrumentation, profiling

### 2 [Optimally profiling and tracing programs](#)

Thomas Ball, James R. Larus

February 1992 **Proceedings of the 19th ACM SIGPLAN-SIGACT symposium on Principles of programming languages POPL '92**, pp. 1-12

Publisher: ACM Press

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This paper presents algorithms for inserting monitoring code to profile and trace programs. The algorithms greatly reduce the cost of measuring programs. Profiling counts the number of times each basic block in a program executes and has a variety of applications. Instruction traces are the basis for trace-driven optimization and analysis, and are also used in trace-driven debugging. The profiling algorithm chooses a placement of counters that is optimized—and frequently optimal—...

### 3 [Continuous program optimization: A case study](#)

Thomas Kistler, Michael Franz

July 2003 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 25, Number 3, pp. 375-402

Publisher: ACM Press

Full text available: [pdf\(877.67 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

Much of the software in everyday operation is not making optimal use of the hardware on which it runs. Among the reasons for this discrepancy are hardware/software mismatches, modularization introduced by software engineering considerations, and the inability of systems to adapt to user...